Coast Guard, Dept. of Homeland Security

firemain and foam systems. These curves need not be submitted if the following information is shown on the drawing:

- (i) Rated capacity and head at rated capacity.
 - (ii) Shutoff head.
- (iii) Head at 150 percent rated capacity.
- (3) Standard drawings of the following fabrication details shall be submitted:
- (i) Welding details for piping connections.
- (ii) Welding details for nonstandard fittings (when appropriate).
- (d-1) Plans of piping for industrial systems on mobile offshore drilling units must be submitted under subpart 58.60 of this subchapter.
- (e) Where piping passes through watertight bulkheads and/or fire boundaries, plans of typical details of piping penetrations shall be submitted.
- (f) Arrangement drawings specified in paragraph (c)(2) of this section are not required if—
- (1) The location of each component for which there is a location requirement (i.e., shell penetration, fire station, foam monitor, etc.) is indicated on the piping diagram;
- (2) The diagram includes, or is accompanied by and makes reference to,

- a material schedule which describes components in sufficient detail to substantiate their compliance with the regulations of this subchapter;
- (3) A thermal stress analysis is not required; and
- (4) A dynamic analysis is neither required nor elected in lieu of allowable stress reduction.

[CGFR 68-82, 33 FR 18843, Dec. 18, 1968, as amended by CGFR 69-127, 35 FR 9978, June 17, 1970; CGFR 72-59R, 37 FR 6189, Mar. 25, 1972; CGD 73-251, 43 FR 56799, Dec. 4, 1978, CGD 77-140, 54 FR 40602, Oct. 2, 1989; CGD 95-012, 60 FR 48049, Sept. 18, 1995]

Subpart 56.04—Piping Classification

§ 56.04-1 Scope.

Piping shall be classified as shown in Table 56.04–1.

TABLE 56.04-1—PIPING CLASSIFICATIONS

Service	Class	Section in this part
Normal Low temperature	I, II	56.04–2 56.50–105

[CGD 72–206R, 38 FR 17229, June 29, 1973, as amended by CGD 77–140, 54 FR 40602, Oct. 2, 1989; CGD 95–012, 60 FR 48049, Sept. 18, 1995]

§ 56.04-2 Piping classification according to service.

The designation of classes according to service is found in Table 56.04–2.

TABLE 56.04-2—PRESSURE PIPING CLASSIFICATION

Service	Class 1	Pressure (p.s.i.g.)		Temp. (°F)
Class B and C poisons 2	1	any	and	0 and above.
·	I-L	any	and	below 0.
	II	(3)	(3)	(3)
	II-L	(3)	(3)	(3)
Gases and vapors ²	1	above 150		above 650.
	I-L	above 150	and	below 0.
		150 and below		0 to 650.
		150 and below		below 0.
iquefied flammable gases ²	I	above 150		0 and above. 1
	I-L			below 0.
		150 and below	and	0 and above.
		150 and below	and	
Molten sulphur	1	above 225		
		225 and below		330 and below.
Cargo liquids Grades A through D ²	I			above 150.
	I-L			below 0.
		225 and below		0 to 150.
		225 and below		below 0.
Cargo liquids Grade E				above 400.
		above 225		below 0.
	II	225 and below	and	0 to 400.
	II-L	225 and below	and	below 0.